

26" 3-Speed Lightweight Bicycles

Men's and Ladies'

WARDS
HAWTHORNE

owner's
guide

Men's
Model
60-30802
60-30802B
Ladies'
Model
60-31802

FORM NO. 60B-71B*



HAWTHORNE

— SOLD EXCLUSIVELY BY MONTGOMERY WARD

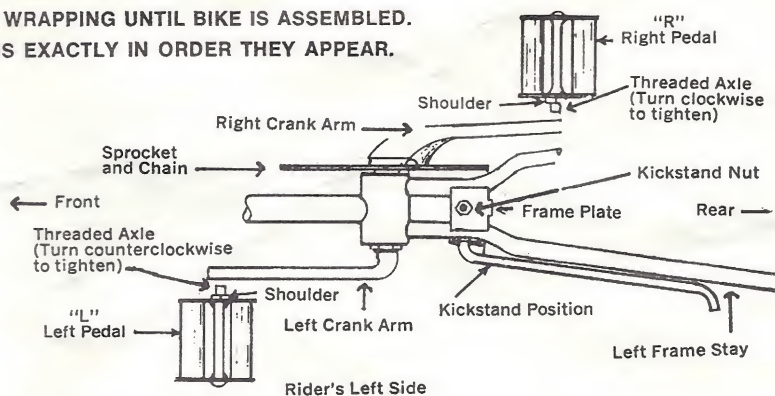
ASSEMBLY INSTRUCTIONS

- USE FLAT WRENCHES — AVOID PLIERS.
- DO NOT DISCARD ANY WRAPPING UNTIL BIKE IS ASSEMBLED.
- FOLLOW INSTRUCTIONS EXACTLY IN ORDER THEY APPEAR.

Step 1. ATTACH KICKSTAND

(If you have a bicycle with kickstand already attached, disregard Step 1.)

- Remove nut from kickstand bolt and insert bolt up through frame plate so that kickstand arm is on rider's left (see illus.).
- Hold kickstand arm firmly parallel to left frame stay and securely fasten nut with wrench (see illus.).

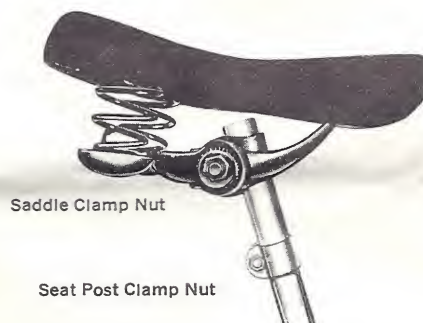


Step 2. ATTACH PEDALS

- IMPORTANT:** Pedal marked "R" (on end of threaded axle or shoulder) must be attached on rider's right side (see illus.).
- Insert threaded axle of "R" pedal into right crank arm (on chain side) and turn *clockwise* (toward front of bike) with fingers to avoid cross threading. Tighten with thin wrench so pedal shoulder is drawn up tightly against crank arm.
- Attach "L" pedal to left crank arm by turning threaded axle *counterclockwise* (toward front of bike). Tighten with wrench.

Step 3. ATTACH SEAT

- Loosen seat clamp nut and place seat on seat post at desired angle and securely tighten seat clamp nut (see illus.).
- Loosen seat post clamp nut on frame (see illus.) and raise or lower seat post to desired height by twisting seat. As a guide to adjusting height, rider's legs should be almost straight with ball of foot on pedal at its lowest position.
- Tighten seat post clamp nut securely.

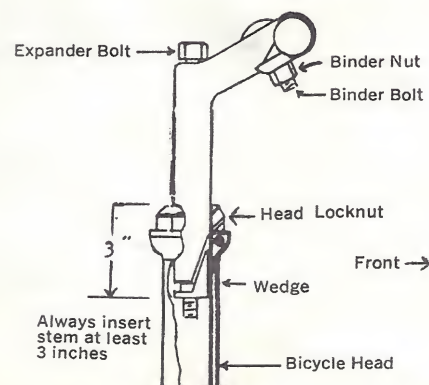


Step 4. ATTACH HANDLEBAR STEM

- Loosen expander bolt and align faces of wedge and stem (see illus.).
- Insert stem *at least three inches* into head. Make sure extended portion of stem faces forward and is parallel with front wheel.
- Tighten expander bolt securely. Recheck for tightness after bars are installed.
- If you wish to raise, lower, or remove stem; loosen expander bolt a few turns and tap bolt down with wrench or hammer. Stem is now loose.

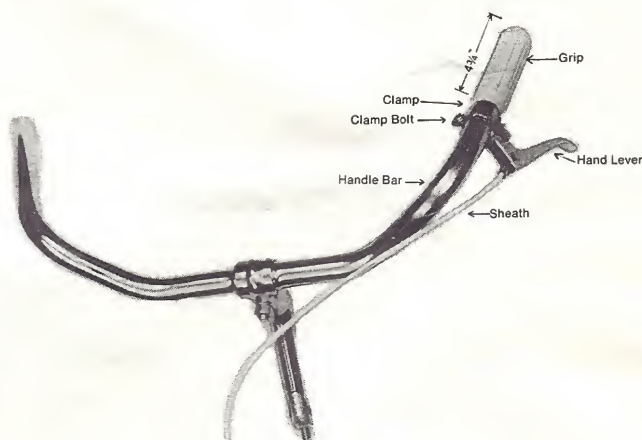
Step 5. ATTACH HANDLEBAR

- IMPORTANT:** Do not attach hand grips until the bicycle is fully assembled.
- Loosen binder bolt on stem (see illus.). (If bicycle is equipped with stem mounted light, remove binder nut and attach light mounting bracket to end of binder bolt under stem. Reattach nut.)
- Insert handlebar into stem so that knurled section is centered in stem. You may have to pry open hole in stem with screwdriver and apply side pressure to handlebars.
- Adjust handlebar angle for rider and securely tighten binder nut.
- Install hand grips. Tap on with heel of hand. If you experience difficulty, dampen end of handlebars with water.



Step 6. ATTACH CALIPER BRAKE HAND LEVERS

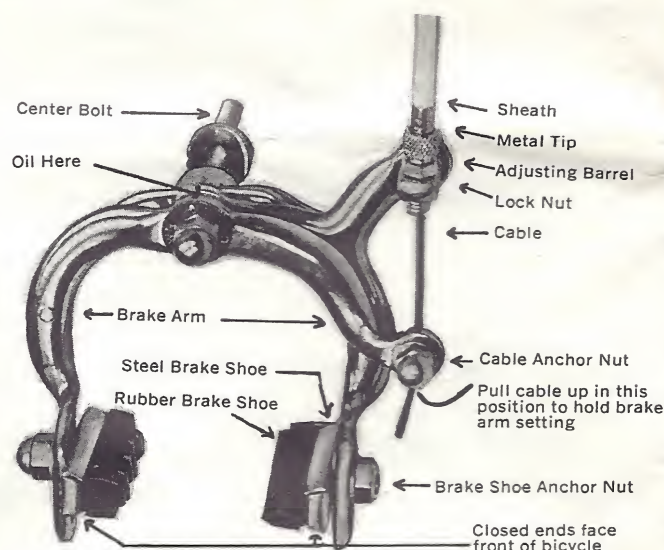
- Remove hand levers from bag attached to bicycle. Attach rear brake hand lever to rider's right side of handlebar by loosening clamp and sliding lever onto bar so clamp is about $4\frac{3}{4}$ inches from end of handlebar (see illus.). For bicycles with racing handlebars, install brake hand levers as shown in illustration. Tighten clamp nut and bolt *loosely*.
- Attach front brake hand lever to rider's left side of handlebar as outlined in A above. For bicycles with racing handlebars install brake hand levers as shown in illustration.
- Install hand grips. Tap on with heel of hand. If you experience difficulty, dampen end of handlebars with water. If bicycle has 3 speed twist grip control, place regular grip on rider's left side of handlebar. See Step 8H for installing twist grip control. Place brake hand levers in most comfortable position and tighten clamps.



Step 7. CHECK ADJUSTMENT OF CALIPER BRAKES

All basic adjustments have been made at factory, *but recheck for added safety.*

- See that *closed ends* of all steel brake shoes face front of bike so rubber brake shoes will not slide out when brakes are applied (see illus.).
- Depress brake arms (see illus.) to make sure all rubber brake shoes strike fully on the sides of chromed wheel rims, not tires. If necessary, loosen brake shoe anchor nuts and move shoes up or down. Retighten.
- Squeeze hand brake levers. Levers should travel about one inch to apply brakes. *Never let tension become so loose that hand levers will bottom against handlebar.* See Step D below for making tension adjustments.
- With brakes in off position, brake shoes should clear wheel rims by about $\frac{1}{8}$ inch on each side. If any do not, make following adjustments:
 - Turn adjusting barrel down tightly (see illus.).
 - Loosen cable anchor nut (see illus.).
 - Squeeze brake arms together so clearance between each rubber shoe and side of rim is about $\frac{1}{8}$ inch. Hold brake arms in this position. Pull cable end out and up to hold position (see illus.). Retighten anchor nut.
- In use, the steel brake cable initially will stretch slightly and rubber shoes will eventually wear down. Check periodically and correct by turning adjusting barrel up to obtain proper tension and clearance or, when necessary, adjust cable length as in Steps 7D, a, b, c, above. Replace worn rubber brake shoes by sliding out open end of steel shoes.
- Occasionally lubricate center bolt (see illus.) with light machine oil.



Step 8. ATTACH AND ADJUST 3-SPEED CONTROLS (TWIST-GRIP)

A. Remove push rod, bell crank, and bell crank lock nut from plastic envelope stapled to hand brake cable.

B. Insert push rod into rear axle with flanged end out (see illus.).

C. Screw bell crank lock nut all the way on threaded end of rear axle.

D. Screw bell crank on axle to finger tightness. Then unscrew a fraction of a turn so threaded arm points forward in position to receive cable turnbuckle (see illus.).

E. Join cable turnbuckle to threaded arm using about five thread turns. Temporarily leave turnbuckle lock nut loose.

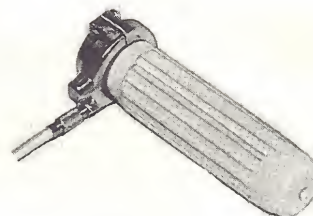
F. Turn *bell crank lock nut* tightly against bell crank.

G. Loosen clamp bolts on twist-grip control, *but do not remove*, slide grip all the way on rider's right side of handlebar. Turn so rider can read shift positions marked on housing. Tighten bolts securely.

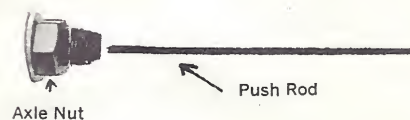
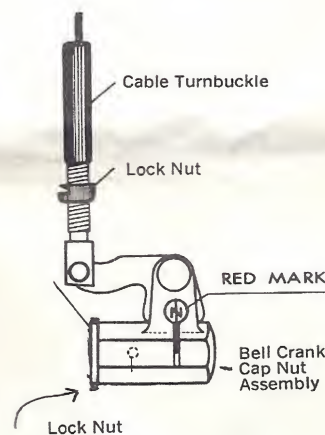
H. Place twist-grip in "N" position.

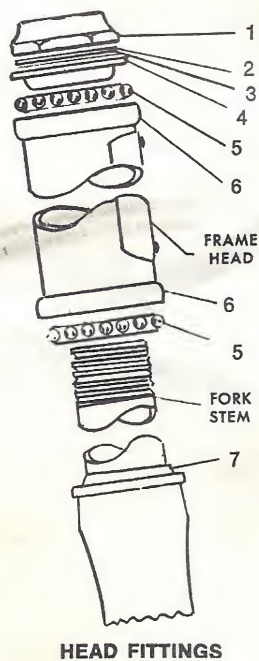
I. Return to bell crank and tighten cable turnbuckle until red "N" and red line are centered in round window and slot, respectively, on top of bell crank. Screw lock nut tightly against turnbuckle. Shift is now adjusted.

J. In use, cable will stretch slightly, and you should occasionally check indicator window and slot on bell crank. Adjustments can be made as needed by tightening turnbuckle as in J above. If cable stretches to the point where adjustment cannot be made by tightening turnbuckle, move cable stop on bike frame forward.

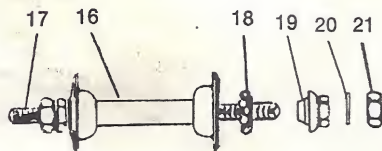


Twist Grip

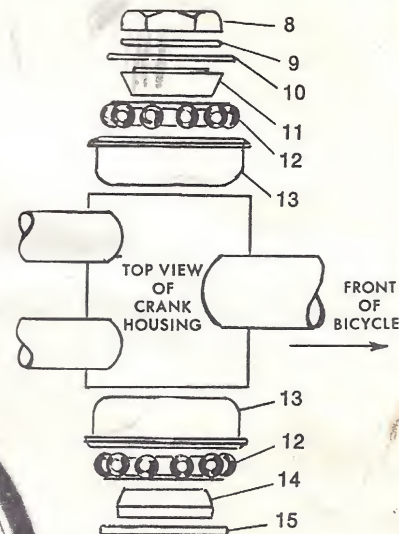
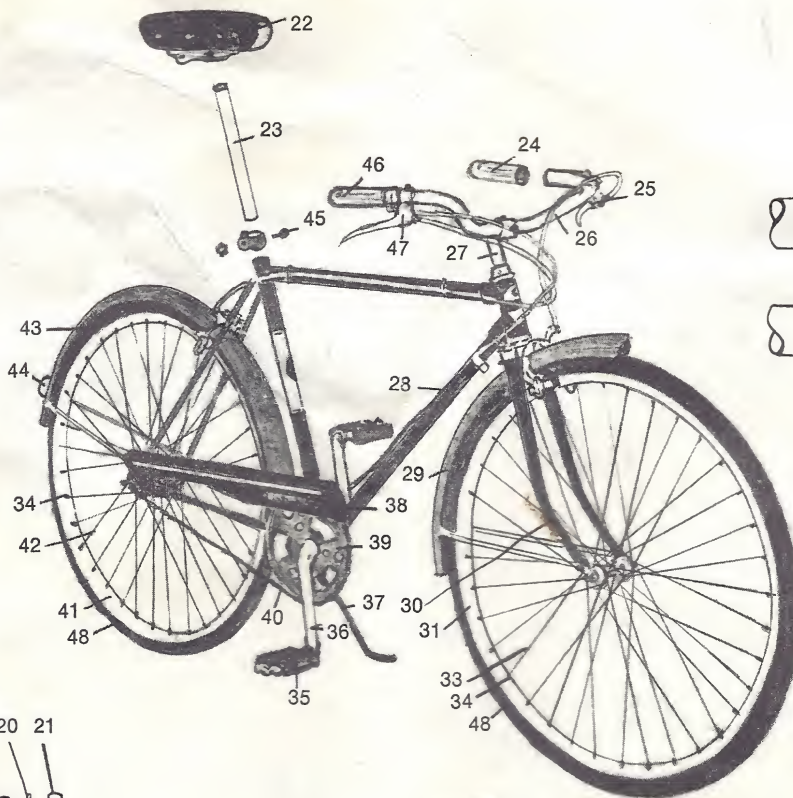




HEAD FITTINGS



FRONT HUB PARTS



HANGER FITTINGS

PARTS LIST

Ref. No.	Name of Part	Part No. All Models
HEAD FITTINGS		
1	Head Lock Nut	3506
2	Head Lock Washer	3505
3	Head Dust Cap Washer	3485
4	Head Adj. Cone—Upper	3500
5	Head Bearing— Upper or Lower	3508
6	Head Cup—Upper or Lower	3507
7	Head Stationary Cone— Lower	3503
HANGER FITTINGS		
8	Hanger Lock Nut—Left	3514
9	Hanger Lock Washer—Left	3515
10	Left Hanger Dust Cap and Cone Assembly	3510
11	Hanger Bearing— Left or Right	3512
12	Hanger Cup—Left or Right	3511
13	Right Hanger Stationary Cone	3509
14	Right Hanger Dust Cap	3517
FRONT HUB PARTS		
16	Hub Shell— Order Complete Hub	XL-36
17	Axle	Y4
18	Bearing—Right or Left	#5
19	Cone and Dust Cap— Right or Left	W-7
20	Washer—Right or Left	Y-14
21	Nut—Right or Left	X13

Ref. No.	Name of Part	Part No. 60-30802 MEN'S 60-30802B MEN'S	Part No. 60-31802 LADIES'
22	Saddle	*	*
23	Seatpost	809	809
24	Grip, Left Hand	S-275	S-275
25	Front Hand Brake Cable Only	C-MF-LW C-MF-LW Cable	C-LF-LW C-LF-LW Cable
26	Handlebar	York 63	York 63
27*	Handlebar Stem	W14	W14
28	Frame	M6LE-55	L6LE-57
29	Front Guard with Brace	C140A-5581	C140A-5781
30	Fork	MF6LE-55	MF6-57
31	Front Wheel, Less Tire	*	*
33-34	Spokes and Nipples, Front	11 $\frac{1}{32}$ SPK-F	11 $\frac{1}{32}$ SPK-F
35*	Pedals	53	43
36	Crank	26C	26C
37	Kickstand	*	*
38	Chainguard	C-28-26-55	C-28-26-57
39	Sprocket	48T	48T
40*	Chain	1/2-52	1/2-52
41	Rear Wheel, Less Tire	34062	34062
This bicycle is equipped with a Shimano 333 Rear Hub			
42-34	Spokes and Nipples, Rear	11 $\frac{1}{4}$ SPK-R	11 $\frac{1}{4}$ SPK-R
43	Rear Guard with Braces	C141-5581	C141-5781
44	Rear Reflector	M10	M10
45	Seatpost Clamp Assembly	SPCA4	SPCA4
46	Twist Grip Control with Cable, Right Hand Cable Only	S-270 S1	S-270 S1
47	Rear Hand Brake Cable Only	C-MR-LW C-MR-LW Cable	C-LR-LW C-LR-LW Cable
48*	Tires and Tubes	26 x 1.375	26 x 1.375

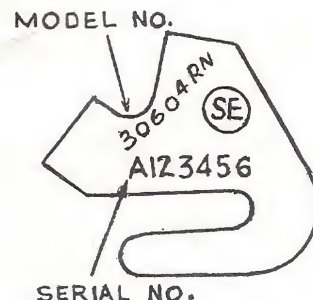
*Available in Sporting Goods Dept. of Wards General Catalog and Retail Stores

RECORD SERIAL NUMBER AND MODEL NUMBER

In case of loss or theft, it is advisable to have a record of your serial number which is stamped on the left rear fork tip near the rear axle. Also record the model number of your bicycle.

Keep this booklet for future reference.

My serial number is B087039 My model number is 31802 R0



TIRE CARE

WARNING: Before riding a new bicycle or one that has been in storage, check tires for proper air pressure. During periods of storage, air pressure will decrease from natural causes. Never ride a bicycle with under-inflated tires, because you risk the tire rolling off the rim, the sidewall rupturing, or the tube being cut by the rim. See chart for proper pressure.

Tire Size	Recommended Pressure
26 x 1 1/8	55 to 60 lbs.
24 x 1 1/8	55 to 60 lbs.
20 x 1 1/8	55 to 60 lbs.
26 x 1.75	40 to 45 lbs.
24 x 1.75	40 to 45 lbs.
20 x 1.75	40 to 45 lbs.
16 x 1.75	40 to 45 lbs.
20 x 2.125	35 to 40 lbs.
27" x 1 1/4	60 to 70 lbs.

GENERAL INFORMATION AND MAINTENANCE

Check all bolts and nuts for proper tightness before you ride your bicycle and after three weeks use, recheck all bearings and cones as well as bolts, nuts and screws for proper tightness as these items will loosen during break in period.

Lubrication: (Initial lubrication has been done at the factory). Every six months or 1,000 miles the head bearings, crank hanger bearings should be disassembled and thoroughly cleaned of all dirt and grease. After cleaning, apply a small amount of bearing grease on all bearings and moving parts. BE SURE TO ADJUST BEARINGS SO THAT MOVING PARTS TURN EASILY, BUT WITHOUT EXCESSIVE PLAY OR SHAKE. A small amount of grease should be placed on the kickstand plate where the arm swings to assure ease of operation. Lubricate the chain with light machine oil as needed. DO NOT OVER LUBRICATE ANY PART OF THE BICYCLE.

Have a qualified repairman check and lubricate the coaster brake and front wheel hub every six months.

Check wheels for loose spokes and trueness on a periodic basis and have any corrections made by an experienced person.

Observe all rules of the road and keep your bicycle in good repair for safety and pleasure.

SERVICE NATIONWIDE



The merchandise you have purchased from us has been carefully engineered and manufactured under Wards rigid quality standards and should give you satisfactory and dependable operation. However, like all mechanical merchandise, it may occasionally require adjustment or maintenance. Should you ever need technical assistance, please contact or write your nearest Wards Retail Store, Catalog Store or Catalog House.

provide the following:

1. Model, serial number and all of the other data shown on the model plate.
2. The date and the Wards branch from which you purchased your merchandise.
3. State briefly the trouble you are having.



how to obtain replacement parts

Replacement Parts may be obtained from your Wards Retail Store, Catalog Store or Catalog House and will be made available at current prices. If requested, prices will be quoted in advance when not listed.

When requesting replacement parts, be sure to give the model and serial number which is shown on the model plate. Also give the part number and the name of the part as shown in the parts list.

If you order by mail, you will pay the transportation charges from the shipping point.